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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/534,944	05/13/2005	Peter Heinrich	HM-623PCT	1703
⁴⁰⁵⁷⁰ FRIEDRICH K	7590 06/27/200 UEFFNER	8	EXAMINER	
317 MADISON	AVENUE, SUITE 91	0	KASTLER, SCOTT R	
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			06/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)		
Office Action Summary		10/534,9	944	HEINRICH ET AL.		
		Examine	er	Art Unit		
		Scott Ka	stler	1793		
Period fo	- The MAILING DATE of this communi r Reply	cation appears on th	ne cover sheet with th	e correspondence ad	ldress	
WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE M. sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum state to reply within the set or extended period for reply sply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. Itutory period will apply and will, by statute, cause the approximation.	THIS COMMUNICATI event, however, may a reply be will expire SIX (6) MONTHS for optication to become ABANDO	ON. The timely filed The timely filed The mailing date of this control (35 U.S.C. § 133).		
Status						
2a)⊠ 3)□	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practic	2b)∏ This action is for allowance excep	ot for formal matters,		e merits is	
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□ 8)□ Applicati	Claim(s) <u>1-7</u> is/are pending in the ap fa) Of the above claim(s) is/are Claim(s) <u>7</u> is/are allowed. Claim(s) <u>1-6</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrice. Claim(s) are subject to restrice.	re withdrawn from o				
10) -	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or betion to the drawing(s) the correction is requ	be held in abeyance. Sired if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 Cl	, ,	
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	TO-948)	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:			

DETAILED ACTION

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by European Patent Application 0045658 (EP'658). EP'658 teaches an arrangement in a gas supply system for a tuyere in a metallurgical furnace, as shown in the embodiment of figure 1 for example, which an be employed for a plurality of tuyeres, where the gas flow is reduced or interrupted to some extent through the use of transducers (4) thereby showing all aspects of the above claims since the use of the device for reducing the gas supply by any particular value at any particular frequency are limitations dealing with the manner or method of use of the claimed apparatus and cannot be relied upon to fairly further limit claims to the apparatus itself. See MPEP 2114 and 2115.

Allowable Subject Matter

Claim 7 is allowed at least because none of the cited or applied prior art shows or fairly suggest the high frequency periodic pulsing of the gas supply.

Response to Arguments

Applicant's arguments filed on 4/1/2008 have been fully considered but they are not persuasive. Applicant's argument that EP'658 does not teach a restrictor which can actively reduce or interrupt the gas supply is not persuasive because as stated on page 3 of EP'658 for example, the tuyere flow rates can be controlled. As written the inflow restrictor of the instant

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claims can be met by any device which modifies the flow of gas through the tuyere, including a gas valve for shutting off or opening the gas supply as disclosed by EP'658.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Scott Kastler/ Primary Examiner, Art Unit 1793

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